

Sun-Pursuit Pro Series

TOPCon
120 - cell Module

TW-490HP-1

475-490W

0-3% Positive Tolerance



Monocrystalline



Half Cell



16BB



Grade A



• MODULE FEATURES



High efficiency

TOPCon technology improves efficiency, increases power generation, and contributes to lower LCOE.



Lower heat spot risk

Innovative circuit design and "Half Cell" structure decrease the temperature of heat spots and effectively reduce power loss.



Excellent low-light performance

Reliable performance in low-light conditions such as in the morning, at dusk or during raining days.



Resilient to extreme weather

Carefully selected materials ensure the module still works well under the condition of 2400Pa wind load and 5400Pa snow load.



ANTI PID

High quality solar cell and advanced processing technology contribute to excellent PID resistance performance.

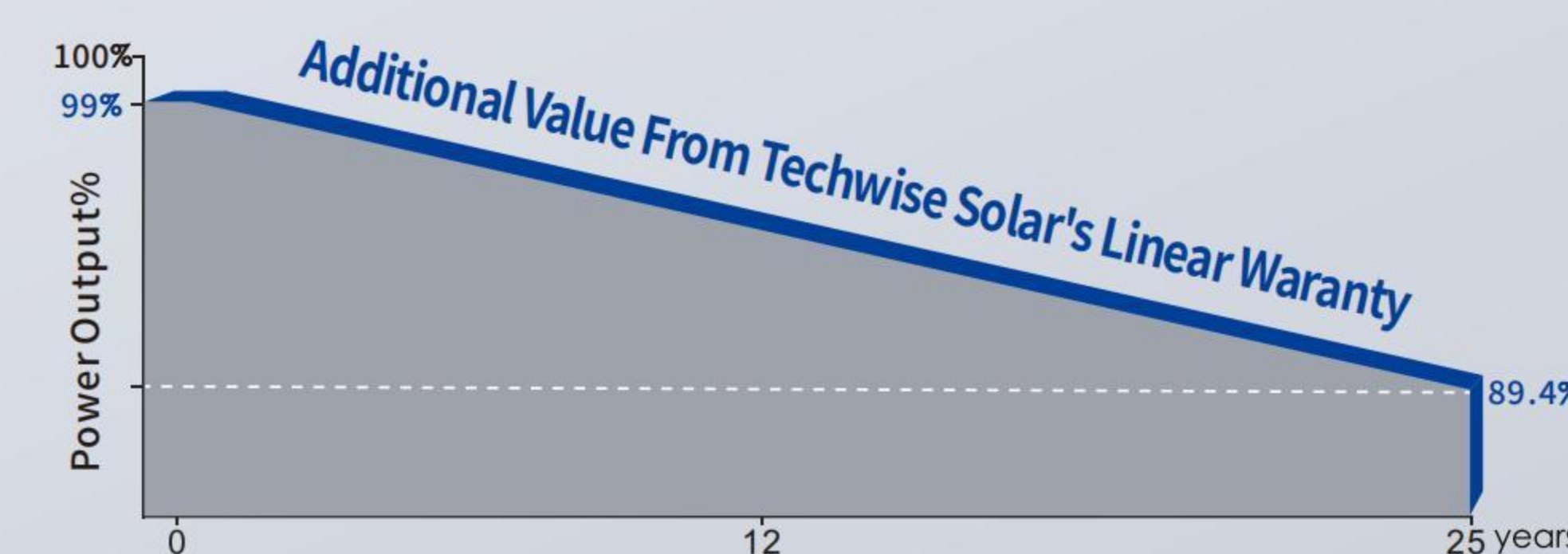
• Quality Certification



• Product Qualification



• Performance Warranty



12 12 Years Product Warranty

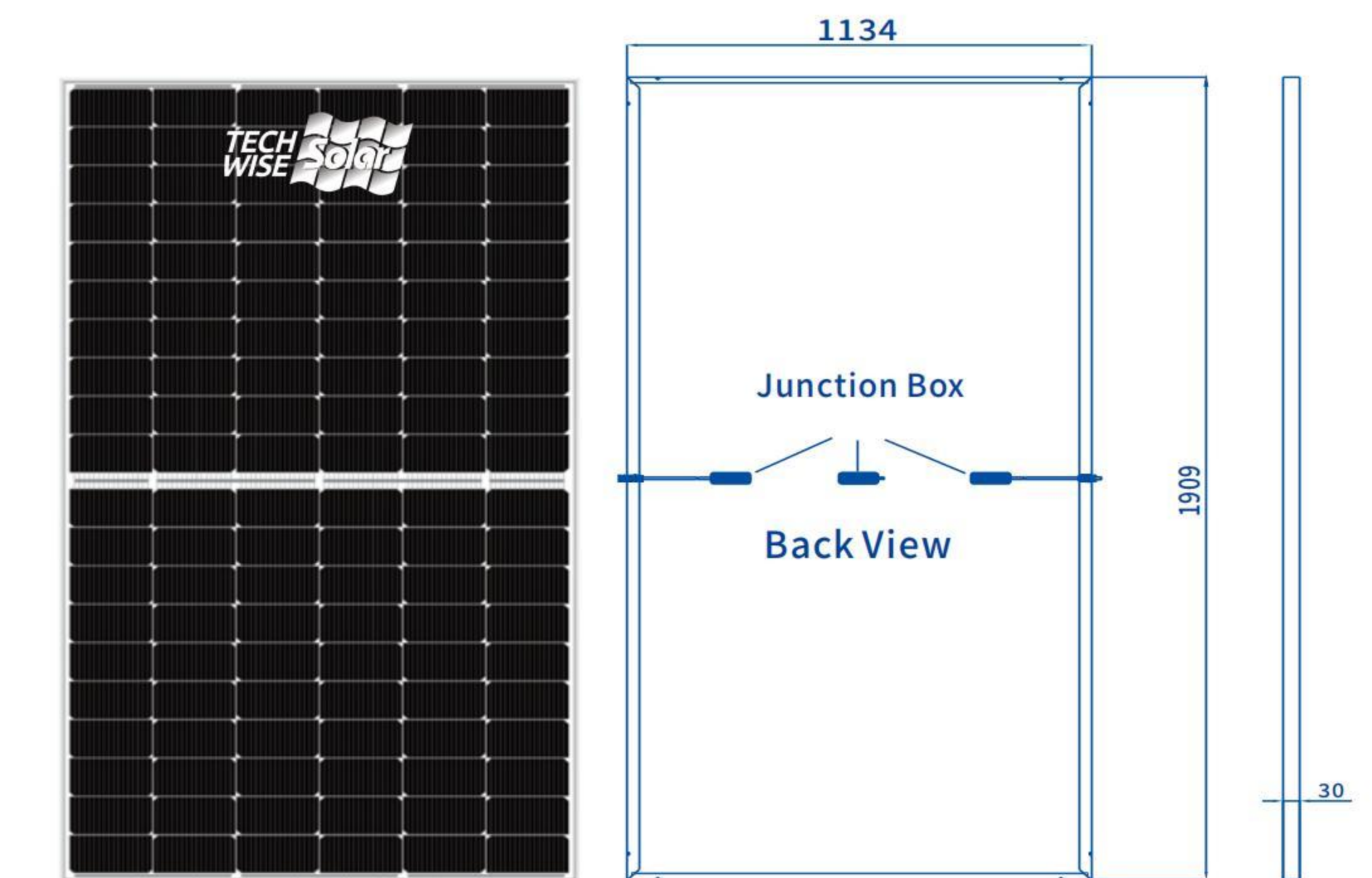
25 25 Years Linear Power Warranty

TW-490HP-1

• Module Specification •

| | |
|----------------------|-----------------------------------|
| Cell Type | Mono crystalline |
| Cell Quantity | 120 cell |
| Cell Size (mm) | 182*91 |
| Module Size (mm) | 1909*1134*30 |
| Module Weight (kg) | 22.5 |
| Glass Thickness (mm) | 3.2 |
| Frame Material | Anodized aluminum alloy |
| Junction Box | IP68 |
| Cable/Connector | 4mm ² , MC4 compatible |
| Cable Length | +300mm/-300mm; or Customize |
| Max System Volt (V) | 1500V DC |
| Max Fuse Rate (A) | 25 |
| Power Tolerance | 0-+3% |

• Engineering Drawings •



• Electrical Characteristics •

STC standard performance >>>

| | | | | | |
|-----------------------|-------|-------|-------|-------|-------|
| Power Level | 470 | 475 | 480 | 485 | 490 |
| Pmax(W) | 470 | 475 | 480 | 485 | 490 |
| Vmp(V) | 34.97 | 35.13 | 35.29 | 35.45 | 35.61 |
| Imp(A) | 13.45 | 13.53 | 13.61 | 13.69 | 13.77 |
| Voc(V) | 42.62 | 42.83 | 43.06 | 43.29 | 43.51 |
| Isc(A) | 14.17 | 14.25 | 14.33 | 14.41 | 14.49 |
| Module Efficiency (%) | 21.71 | 21.94 | 22.17 | 22.40 | 22.63 |

NOCT standard performance >>>

| | | | | | |
|-------------|-------|-------|-------|-------|-------|
| Power Level | 470 | 475 | 480 | 485 | 490 |
| Pmax(W) | 353 | 357 | 361 | 365 | 369 |
| Vmp(V) | 32.89 | 33.08 | 33.27 | 33.42 | 33.57 |
| Imp(A) | 10.74 | 10.80 | 10.86 | 10.93 | 11.00 |
| Voc(V) | 40.22 | 40.38 | 40.54 | 40.70 | 40.86 |
| Isc(A) | 11.44 | 11.51 | 11.57 | 11.63 | 11.69 |

STC: Irradiance 1000W/m², Module Temperature 25°C, AM1.5

NOCT: Irradiance 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

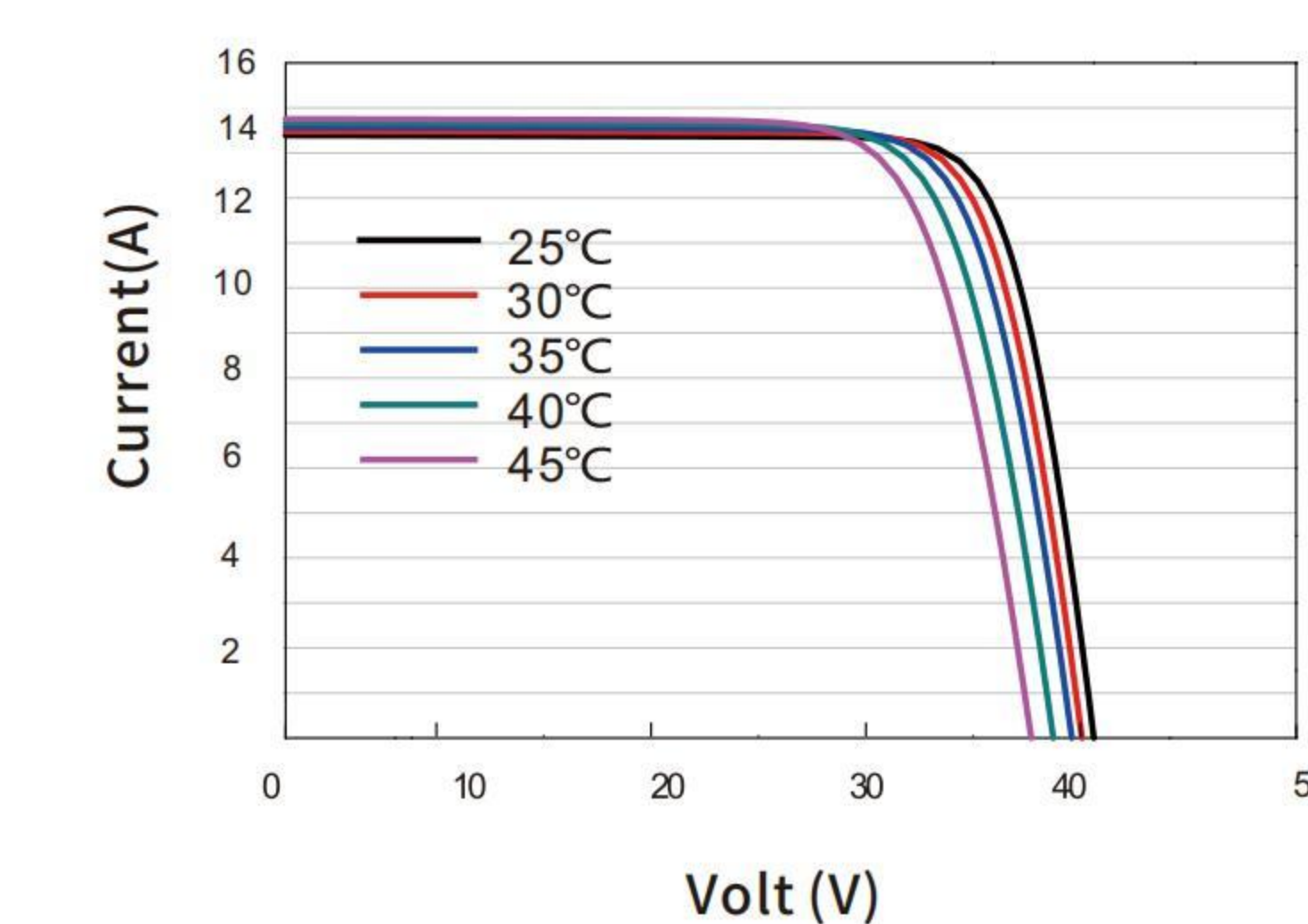
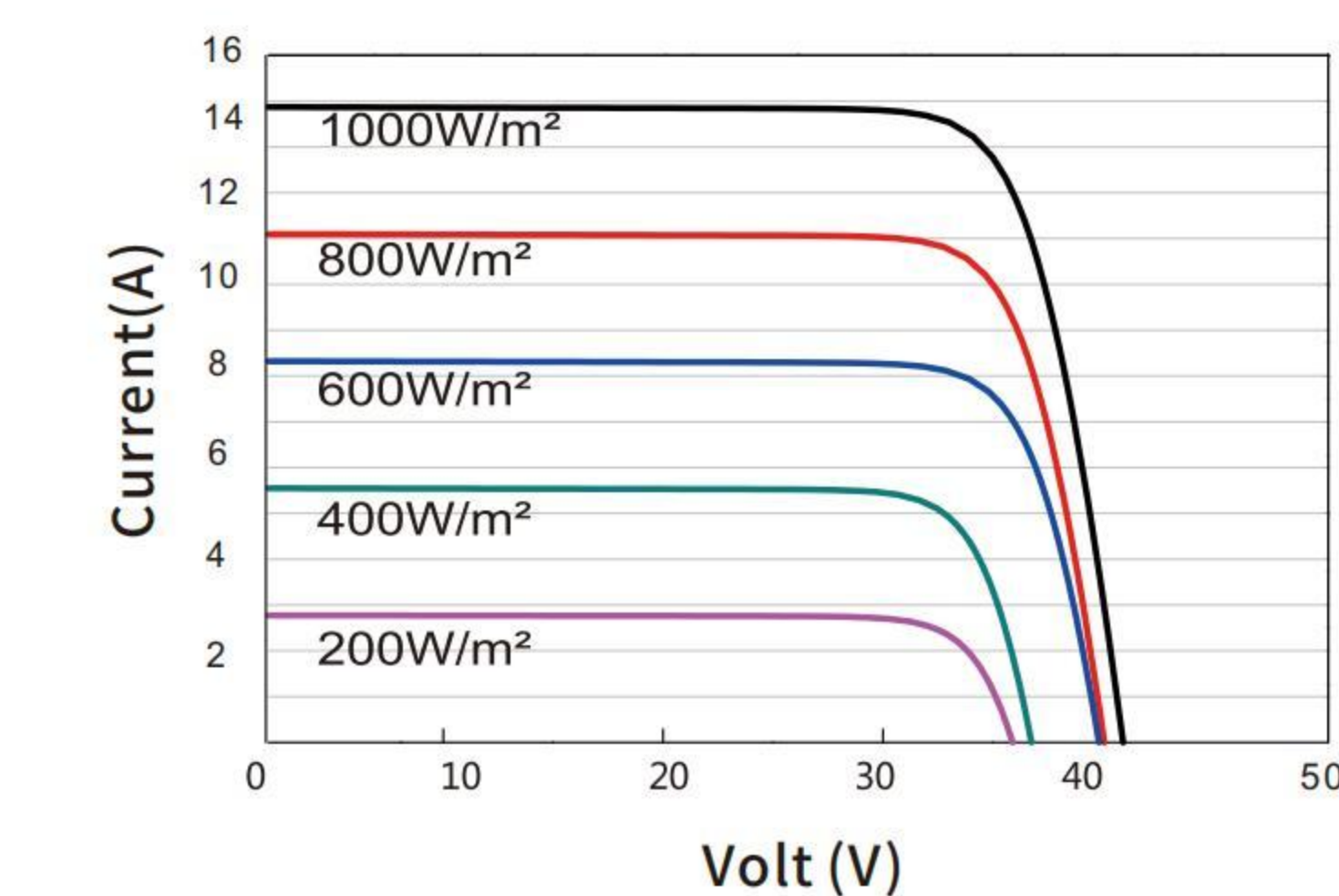
• Temperature Characteristics •

| | |
|-----------------------------|---------------------------------------|
| Operating Temp (°C) | -40~85 |
| Operating Humidity (°C) | 5~85 |
| Hail Load Tolerance | 25mm hailstone with velocity of 23m/s |
| Temp Coefficient | -0.35 |
| Temp Coefficient Isc (%/°C) | 0.05 |
| Temp Coefficient Voc (%/°C) | -0.275 |
| Operating Temp (°C) | 44±2 |



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• I-V Curve •



• Packaging Info •

| | |
|---------------------------|----------------|
| Pieces per Pallet | 36 |
| Size of Packaging (mm) | 1925*1125*1270 |
| Weight of per Pallet (kg) | 835 |
| Pieces per Container | 864 |
| Size of Container | 40'HC |

All data and specifications included in this brochure may subject to be modified without notice.
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